



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Multi-Vest (R) liquid

Revision 0

Revision date 2021-01-08

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Multi-Vest (R) liquid

1.3. Details of the supplier of the safety data sheet

Company	Ransom & Randolph
Address	3535 Briarfield Boulevard, PO Box 1570 Maumee, Ohio 43537 USA
Web	www.ransom-randolph.com
Telephone	+1 (419) 865-9497
Fax	+1 (419) 865-9997
Email	RR.SDS@dentsply.com
Email address of the competent person	RR.SDS@dentsply.com

1.4. Emergency telephone number

Emergency telephone number	USA +1 419 865 9497
Company	Ransom & Randolph Co. 08:00-17:00 (US Eastern Std. / GMT minus 5)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008 Acute Tox. 4: H302; STOT SE 1: H370;

2.2. Label elements

Hazard pictograms This substance / mixture has been classified in accordance with the US Federal OSHA Hazard Communication Standard 29CFR 1910.1200. Substance concentration band-ranges are presented, and minor ingredient composition maybe withheld, to protect trade secrets.



Signal Word Danger

Hazard Statement Acute Tox. 4: H302 - Harmful if swallowed.
STOT SE 1: H370 - Causes damage to organs (lungs) .

Precautionary Statement: Prevention P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash (hands) thoroughly after handling.
P270 - Do no eat, drink or smoke when using this product.

Precautionary Statement: Response P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell.
P321 - Specific treatment (see on this label).
P330 - Rinse mouth.

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2.2. Label elements

Precautionary Statement: Storage	P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to local and national regulations

2.3. Other hazards

Other hazards	Amorphous silica may be converted to crystalline silica (cristobalite) when subjected to very high temperatures (1700° F). Exposure to respirable crystalline silica may cause lung disease.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
silica (amorphous)		7631-86-9	231-545-4		20 - 30%	
Methanol	603-001-00-X	67-56-1	200-659-6		1 - 10%	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes. Keep away from combustible materials.
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5.3. Advice for firefighters

	Self-contained breathing apparatus. Wear protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

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7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

7.3. Specific end use(s)

Foundry material.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

exposure limits - Silica, vitreous (fused, amorphous) 80 mg/m³ / (% Silica), TWA PEL (respirable fraction).

8.1.1. Exposure Limit Values

Ethanalamine (2-Aminoethanol)	WEL 8-hr limit ppm: 1	WEL 8-hr limit mg/m ³ : 2.5
	WEL 15 min limit ppm: 3	WEL 15 min limit mg/m ³ : 7.6
	WEL 8-hr limit mg/m ³ total - inhalable dust:	WEL 15 min limit mg/m ³ total - inhalable dust:
	WEL 8-hr limit mg/m ³ total - respirable dust:	WEL 15 min limit mg/m ³ total - respirable dust:
Methanol	WEL 8-hr limit ppm: 200	WEL 8-hr limit mg/m ³ : 266
	WEL 15 min limit ppm: 250	WEL 15 min limit mg/m ³ : 333
	WEL 8-hr limit mg/m ³ total - inhalable dust:	WEL 15 min limit mg/m ³ total - inhalable dust:
	WEL 8-hr limit mg/m ³ total - respirable dust:	WEL 15 min limit mg/m ³ total - respirable dust:

8.2. Exposure controls



8.2.1. Appropriate engineering controls

Ensure adequate ventilation of the working area.

8.2.2. Individual protection measures

Wear chemical protective clothing.

Eye / face protection

Approved safety goggles.

Skin protection -
Handprotection

Chemical resistant gloves (PVC).

Respiratory protection

Wear: Suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Off white
Odour	Odourless
Odour threshold	Not applicable.
pH	10
Melting point	0 °C
Freezing Point	≈ 0 °C
Initial boiling point	≈ 100 °C
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	17.5 Pa
Vapour density	0.016 g/cm ³
Relative density	No data available
Fat Solubility	Not applicable.
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Specific gravity	1.26
Gas group	Not applicable.
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic compounds)	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

	Not applicable.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Hazardous polymerization is not expected to occur.
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10.4. Conditions to avoid

	Do NOT allow to freeze.
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10.5. Incompatible materials

	Avoid contact with: Oxidising agents, Strong acids.
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10.6. Hazardous decomposition products

	Carbon dioxide (CO ₂) may be formed in fire conditions.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

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11.1. Information on toxicological effects

Skin corrosion/irritation	May cause degreasing of the skin. Skin irritation and dermatitis.
Serious eye damage/irritation	Eyes: Contact may cause irritation with redness and tearing.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Methanol CAS 67-56-1. May impair fertility.
STOT-single exposure	May cause damage to human organs based on animal data. optic nerve and central nervous system.
STOT-repeated exposure	No data available.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged exposure	Danger of cumulative effects. Methanol CAS 67-56-1. Adverse reproductive effects have been found in laboratory animals.

11.1.4. Toxicological Information

Methanol	Oral Rat LD50: 100 Inhalation Rat LC50/4 h: 3	Dermal Rabbit LD50: 300
Multi-Vest (R) liquid	Oral Rat LD50: > 15gm/kg	

SECTION 12: Ecological information

12.1. Toxicity

Methanol	Fish LC50/96h: 15400.0000 mg/l	Algae EC50/120h: 530
Multi-Vest (R) liquid	Daphnia EC50/48h: 7600.000 mg/l	Fish LC50/96h: 5000.000 mg/l

12.2. Persistence and degradability

	Methanol CAS 67-56-1. Readily biodegradable.
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12.3. Bioaccumulative potential

	Lowest observed adverse effect concentration.
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Partition coefficient

	Multi-Vest (R) liquid No data available
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12.4. Mobility in soil

	Methanol CAS 67-56-1. very high mobility in soils.
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12.5. Results of PBT and vPvB assessment

	Not applicable.
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12.6. Other adverse effects

	Not applicable.
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SECTION 13: Disposal considerations

General information

	Dispose of in compliance with all local and national regulations.
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SECTION 14: Transport information

14.1. UN number

	The product is not classified as dangerous for carriage.
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14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
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14.3. Transport hazard class(es)

	The product is not classified as dangerous for carriage.
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14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

Further information

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations

U.S. FEDERAL REGULATIONS: Multi-Vest liquid

CERCLA 103 Reportable Quantity: RQ for product is 100,000 pounds (based on a RQ of 5000 pounds for Methanol 5%. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

Hazard Category For Section 311/312: Acute health, Chronic health

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): Methanol CAS 67-56-1 1-10%.

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

U.S. STATE REGULATIONS

California Proposition 65: This product can expose you to chemicals including Methanol, which is known to the State of California to birth defects and other reproductive harm. For more information go to www.p65Warnings.ca.gov.

INTERNATIONAL REGULATIONS:

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).

European Inventory of New and Existing Chemicals Substances (EINECS): All of the components in this product are listed on the EINECS inventory.

15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information

Other information

Text of Hazard Statements in Section 3

Flam. Liq. 1: H224 - Extremely flammable liquid and vapour.
 Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
 STOT SE 1: H370 - Causes damage to organs .
 STOT SE 2: H371 - May cause damage to organs .

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Further information

	<p>The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.</p>
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